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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/034,428	12/27/2001	Jules Olita	P638	1721	
7590 07/13/2006			EXAM	INER	
Armand M. Vozzo, Jr., Esquire			JONES, HEATHER RAE		
19 Short Road Doylestown, PA 18901			ART UNIT	PAPER NUMBER	
			2621	2621	
			DATE MAILED: 07/13/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/034,428	OLITA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Heather R. Jones	2621				
The MAILING DATE of this communication		he correspondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory provided to reply within the set or extended period for reply will, by some any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNICATER 1.136(a). In no event, however, may a reply n. eriod will apply and will expire SIX (6) MONTHS statute, cause the application to become ABAND	FION. be timely filed from the mailing date of this communication. FONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on §	<u>6/10/2006</u> .					
2a) ☐ This action is FINAL . 2b) ☑	This action is FINAL . 2b)⊠ This action is non-final.					
, —						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) <u>1-12</u> is/are pending in the applicated 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-3,5,7-9 and 11</u> is/are rejected. 7) ⊠ Claim(s) <u>4,6,10 and 12</u> is/are objected to. 8) □ Claim(s) are subject to restriction and 12	ndrawn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Examulation The drawing(s) filed on 27 December 2001		☑ accepted or b) ☐ objected to by the				
Examiner.						
Applicant may not request that any objection to Replacement drawing sheet(s) including the continuous The oath or declaration is objected to by the	prrection is required if the drawing(s) i	s objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in Appl priority documents have been rec ureau (PCT Rule 17.2(a)).	ication No reived in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date	Paper No(s)/M	mary (PTO-413) ail Date nal Patent Application (PTO-152)				

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, filed June 10, 2006, with respect to the rejection(s) of claim(s) 1-3, 5, 7-9 and 11 under Del Bianco et al. (U.S. Patent 6,859,327) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of the Del Bianco et al. (EP 1 107 041 A1) reference being applied to the claims as 35 U.S.C. 102(a) reference rather than a 35 U.S.C. 102(e) reference (Del Bianco et al. - U.S. Patent 6,859,327) due to Applicant pointing out that the Del Bianco et al. reference can not be used as a 35 U.S.C. 102(e) reference.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 3. Claims 1, 2, 7, and 8 are rejected under 35 U.S.C. 102(a) as being anticipated by Del Bianco et al. (EP 1 107 041 A1) (Please see U.S. Patent 6,859,327 for a translation. All citations are from the U.S. Patent.).

Regarding claim 1, Del Bianco et al. discloses a thermal imaging system intended for use upon a helmet (2) worn by a person observing a scene at a fire or other incident site (col. 1, lines 11-15), comprising: an infrared camera means

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(13) assembled and releasably mounted in a stationary position along the centerline of the helmet for producing video signals reflective of thermal images of the scene viewed along the centerline (as can be seen from Fig. 5; col. 3, lines 18-24); an eyepiece display means (6) extended from the infrared camera means (13) and adjustably connected thereto for presenting thermal images of the scene to the either eye of the person based on the video signals from the infrared camera means (13) (the display means covers both eyes); and bracket means (7 and 16) assembled and interconnected between the infrared camera means (13) and the helmet (2), the bracket means being axially aligned with the centerline of the helmet and releasably interlocked therealong for mounting the infrared camera means (13) in the stationary position along the centerline of the helmet (2) (col. 1, lines 11-25 - it is inherent that the camera would be placed in the centerline of the helmet because the camera is being used for the fireman to detect the environment in order to recognize danger sites and barriers in time when vision is blocked due to heavy smoke development or darkness).

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Regarding claim 2, Del Bianco et al. discloses all the limitations as previously discussed with respect to claim 1 including that the infrared camera means (13) comprises: an infrared camera (13) having a sensor array forwardly positioned to detect infrared radiation emanating from the scene for producing electrical signals indicative thereof (as can be seen in Fig. 5); signal processor means connected to receive the electrical signals from the infrared camera (13) for generating processed video signals based thereon indicative of thermal

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images of the scene; and battery means (29) connected to the infrared camera (13) and the signal processor means for providing electrical power thereto.

Regarding claim 7, Del Bianco et al. discloses a thermal imaging camera system intended for use upon a helmet (2) having a brim (22) and worn by a person observing a scene at a fire or other incident site (col. 1, lines 11-15), comprising: an infrared camera means (13) assembled and adapted to be mounted in a stationary position upon the brim (22) of the helmet (2) (col. 3, lines 18-24), the infrared camera means (13) being disposed to view the scene along the centerline of the helmet (2) for generating processed video signals reflective of thermal images of the scene; an eyepiece display means (6) electrically connected to the infrared camera means (13) and flexibly extended therefrom for displaying thermal images of the scene to either eye of the person based on the video signals generated from the infrared camera means (13) (the display means covers both eyes); and bracket means (7 and 16) assembled and interconnected between the infrared camera means (22) and the brim (22) of the helmet (2), the bracket means being axially aligned with the centerline of the helmet and releasably interlocked therealong for releasably mounting the infrared camera means (13) in the stationary position along the centerline of the helmet (2) (col. 1, lines 11-25 - it is inherent that the camera would be placed in the centerline of the helmet because the camera is being used for the fireman to detect the environment in order to recognize danger sites and barriers in time when vision is blocked due to heavy smoke development or darkness).

Regarding claim 8, grounds for rejecting claim 2 apply for claim 8 in its entirety.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3, 5, 9, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Del Bianco et al. (EP 1 107 041 A1) (Please see U.S. Patent 6,859,327 for a translation. All citations are from the U.S. Patent.).

Regarding claim 3, Del Bianco et al. discloses all the limitations as previously discussed with respect to claims 1 and 2 except that the infrared camera means further comprises housing means for containing the infrared camera, the signal processor means and the battery means in an assembled camera arrangement wherein the sensor array of the infrared camera is forwardly disposed to receive the infrared radiation emanating from the scene. Official Notice is taken that a surveillance camera housing contains all the electronic components and power components necessary to operate the camera in order to protect the components from the surrounding weather. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combined the infrared camera means, signal processing means, and the battery means into one housing in order to minimize the camera assembly to

make the camera more versatile and to protect the components from environmental conditions.

Regarding claim **5**, Del Bianco et al. discloses all the limitations as previously discussed with respect to claims 1-3 including that the eyepiece display means (6) comprises an eyepiece display electrically connected to receive the processed video signals from the signal processor means for producing thermal images therefrom (col. 3, line 62 – col. 4, line 4); and an articulated arm (15) connected to the housing means and adjustably configured to extend the eyepiece display therefrom in a position forward of either eye of the person (col. 3, lines 29-31).

Regarding claim 9, grounds for rejecting claim 3 apply for claim 9 in its entirety.

Regarding claim **11**, grounds for rejecting claim 5 apply for claim 11 in its entirety.

Allowable Subject Matter

- 6. Claims 4, 6, 10, and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. The following is a statement of reasons for the indication of allowable subject matter: Prior art fails to teach or fairly suggest a thermal imaging camera system, in combination with all the other elements, comprising:

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a. A housing means comprising: a front housing member formed having a cavity to substantially contain the assembled camera arrangement therein and further formed having a portal centrally therethrough to permit transmission of the infrared radiation emanating from the scene to the sensor array of the infrared camera; a rear housing member connected to the front housing member and formed to enclose the cavity thereof; the rear housing member being further formed to provide an interior compartment to hold the battery means; and a battery door pivotally connected to the rear housing member to close the interior compartment therein (claims 4 and 10).

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b. A bracket means comprises: a first bracket member attached to the housing means in an axial direction, the first bracket member being formed having an open rectangular configuration with a C-shaped cross-section; a second bracket member attached to the helmet in an axial direction and along the centerline of the helmet, the second bracket member being formed having a rectangular configuration conformed to fit axially within the open rectangular configuration of the first bracket member; and decent means secured to the second bracket member and transversely disposed thereon to releasably interlock the first and second bracket members when axially engaged (claims 6 and 12).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heather R. Jones whose telephone number is 571-272-7368. The examiner can normally be reached on Mon. - Thurs.: 7:00 am - 4:30 pm, and every other Fri.: 7:00 am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Heather R Jones Examiner

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HRJ July 6, 2006